CONTENTS

MULTIPHOTON IONIZATION OF GASEOUS MOLECULES
H. Reisler and C. Wittig 1

LASER ISOTOPE SEPARATION BY THE SELECTIVE MULTIPHOTON DECOMPOSITION PROCESS
R. D. McAlpine and D. K. Evans 31

PHOTOIONIZATION IN NON-POLAR LIQUIDS
B. S. Yakovlev and L. V. Lukin 99

PHOTOELECTRON SPECTROSCOPY OF EXCITED STATES
K. Kimura 161

PREDISSOCIATION OF POLYATOMIC VAN DER WAALS MOLECULES
K. C. Janda 201

ION PHOTOFRAGMENT SPECTROSCOPY
J. T. Moseley 245

THE FRANCK–CONDON PRINCIPLE IN BOUND-FREE TRANSITIONS
J. Tellinghuisen 299

THEORETICAL ASPECTS OF PHOTODISSOCIATION AND INTRAMOLECULAR DYNAMICS
P. Brumer and M. Shapiro 371

QUANTUM THEORY OF MOLECULAR PHOTODISSOCIATION
G. G. Balint-Kurti and M. Shapiro 403

INDEX 451